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L2	448	(receiv\$3 with index\$3 with media)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 10:34
L3	1184	(index\$3 with media).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 10:34
L4	107	2 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 09:27
L5	394	(captur\$3 with media with file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 09:36
L6	3	4 and 5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 09:27
L7	10	2 and 5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2007/01/21 09:28
L8	0	7 and @ad<"20020718"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 09:37

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L9		3 and 5 and @ad<"20020718"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 10:27
L10	3	(index\$3 with buffer\$3) and 5 and @ad<"20020718"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 09:39
L11	71	(captur\$3 with media with index\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 09:36
L12	2	11 and 2 and @ad<"20020718"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 10:34
L13	71	(receiv\$3 with index\$3 with media). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 09:38
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L16	8	(index\$3 with transmitt\$4) and 13 and @ad<"20020718"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 09:41

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L18	9	(index\$3 with (convert\$3 or encod\$3 or transmit\$5 or receiv\$3)) and 5 and @ad<"20020718"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 09:42
L19	13448	(index\$3 with ((media near file\$1) or image or photo or picture or (digital near content))).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 09:53
L20	79049	(captur\$3 with ((media near file\$1) or image or photo or picture or (digital near content)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 09:54
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L22	0	13 and (707/1-3).ccls. and @ad<"20020718"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 10:28
L23	0	13 and (707/7).ccls. and @ad<"20020718"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 10:28
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L27	0	13 and (707/3).ccls. and @ad<"20020718"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 10:28
L28	11	2 and (707/1-3).ccls. and @ad<"20020718"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 10:28
L29	14	(index\$3 with media with captur\$3).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 10:34
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L31	0	(receiv\$3 with index\$3) and 30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/21 10:34

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investigated: syntactic level correlation and semantic level correlation. We devise a capturing mechanism to record all the media streams and relations ...

Keywords: computed synchronization process, media correlation, media synchronization.

Keywords: computed synchronization process, media correlation, media synchronization, semantic level correlation, syntactic level correlation

3 Plenary papers: SEVA: sensor-enhanced video annotation



Xiaotao Liu, Mark Corner, Prashant Shenoy

November 2005 Proceedings of the 13th annual ACM international conference on **Multimedia MULTIMEDIA '05**

Publisher: ACM Press

Full text available: pdf(432.55 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we study how a sensor-rich world can be exploited by digital recording devices such as cameras and camcorders to improve a user's ability to search through a large repository of image and video files. We design and implement a digital recording system that records identities and locations of objects (as advertised by their sensors) along with visual images (as recorded by a camera). The process, which we refer to as sensor-enhanced video annotation (SEVA), combines a series ...

Keywords: context-based retrieval, location-based services, sensor-enhanced, video annotation

4 Wireless troubleshooting: MOJO: a distributed physical layer anomaly detection system for 802.11 WLANs



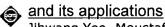
Publisher: ACM Press

Full text available: pdf(444.15 KB) Additional Information: full citation, abstract, references, index terms

Deployments of wireless LANs consisting of hundreds of 802.11 access points with a large number of users have been reported in enterprises as well as college campuses. However, due to the unreliable nature of wireless links, users frequently encounter degraded performance and lack of coverage. This problem is even worse in unplanned networks, such as the numerous access points deployed by homeowners. Existing approaches that aim to diagnose these problems are inefficient because they troubleshoo ...

Keywords: anomaly detection, self-healing, wireless networks

5 Wireless monitoring and denial of service: A framework for wireless LAN monitoring



Jihwang Yeo, Moustafa Youssef, Ashok Agrawala

October 2004 Proceedings of the 2004 ACM workshop on Wireless security WiSe '04

Publisher: ACM Press

Full text available: pdf(1.03 MB)

Additional Information: full citation, abstract, references, citings, index terms

Many studies on measurement and characterization of wireless LANs (WLANs) have been performed recently. Most of these measurements have been conducted from the wired portion of the network based on wired monitoring (e.g. sniffer at some wired point) or SNMP statistics. More recently, wireless monitoring, the traffic measurement from a wireless vantage point, is also widely adopted in both wireless research and commercial WLAN management product development. Wireless monitoring technique c ...

Keywords: anomaly, security, traffic characterization, wireless LAN, wireless monitoring

6 Comparing design options for allocating communication media in cooperative safety-

<u>critical contexts: a method and a case study</u>

Robert Fields, Fabio Paternò, Carmen Santoro, Sophie Tahmassebi December 1999 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 6 Issue 4
Publisher: ACM Press

Full text available: pdf(437.90 KB)

Additional Information: full citation, abstract, references, citings, index terms

In this article we present a method for evaluating and comparing design options for allocating communication media. The method pays particular attention to how such options support cooperation in an interactive safety-critical system. The comparison is performed using three sets of criteria based on task performance, analysis of user deviations and consequent hazards, and coordination. The explicit emphasis on hazards and communication issues, using actual tasks to guide the evaluation, ens ...

Keywords: air traffic control, task, usability and safety

7 "Smart clothing": wearable multimedia computing and "personal imaging" to restore

the technological balance between people and their environments

Steve Mann

February 1997 Proceedings of the fourth ACM international conference on Multimedia MULTIMEDIA '96

Publisher: ACM Press

Full text available: pdf(2.18 MB) Additional Information: full citation, references, citings, index terms

Keywords: augmented reality, mediated reality, mobile multimedia, pencigraphic image compositing, personal imaging, smart spaces, ubiquitous computing, video orbits, video surveillance, wearable computing

⁸ <u>Jigsaw: solving the puzzle of enterprise 802.11 analysis</u>

Yu-Chung Cheng, John Bellardo, Péter Benkö, Alex C. Snoeren, Geoffrey M. Voelker, Stefan Savage

August 2006 ACM SIGCOMM Computer Communication Review, Proceedings of the 2006 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '06, Volume 36 Issue 4

Publisher: ACM Press

Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, references, index terms

The combination of unlicensed spectrum, cheap wireless interfaces and the inherent convenience of untethered computing have made 802.11 based networks ubiquitous in the enterprise. Modern universities, corporate campuses and government offices routinely de-ploy scores of access points to blanket their sites with wireless Internet access. However, while the fine-grained behavior of the 802.11 protocol itself has been well studied, our understanding of how large 802.11 networks behave in their ful ...

Keywords: 802.11, measurement, monitoring, wireless networks

9 Technical papers: Aiding knowledge capture by searching for extensions of

knowledge models

David B. Leake, Ana Maguitman, Thomas Reichherzer, Alberto J. Cañas, Marco Carvalho, Marco Arguedas, Sofia Brenes, Tom Eskridge

October 2003 Proceedings of the 2nd international conference on Knowledge capture K-CAP '03

Publisher: ACM Press

Full text available: pdf(458.76 KB) Additional Information: full citation, abstract, references, citings, index

terms, review

Electronic concept mapping tools empower experts to play an active role in the knowledge capture process, and provide a medium for building richly connected multimedia knowledge models---sets of linked concept maps and resources about a particular domain. Knowledge models are intended to be used as a means for sharing knowledge among humans, not as carefully-crafted knowledge bases upon which machines will be performing inference. However, users must still confront the questions of what t ...

Keywords: case-based reasoning, concept mapping, context, knowledge acquisition tools, knowledge engineering and modeling methodologies, knowledge management environments, retrieval

10 Media-based navigation for hypermedia systems

Kyoji Hirata, Yoshinori Hara, Naoki Shibata, Fusako Hirabayashi

December 1993 Proceedings of the fifth ACM conference on Hypertext HYPERTEXT '93

Publisher: ACM Press

Full text available: pdf(2.28 MB) Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: hypermedia database, indexing, information retrieval, media-based navigation, pattern matching

11 Mobility & wireless access: Sensor-enhanced mobile web clients: an XForms

approach

John Barton, Tim Kindberg, Hui Dai, Nissanka B. Priyantha, Fahd Al-bin-ali May 2003 Proceedings of the 12th international conference on World Wide Web **WWW '03**

Publisher: ACM Press

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> Full text available: pdf(485.90 KB) terms

This paper describes methods for service selection and service access for mobile, sensorenhanced web clients such as wireless cameras or wireless PDAs with sensor devices attached. The clients announce their data-creating capabilities in "Produce" headers sent to servers; servers respond with forms that match these capabilities. Clients fill in these forms with sensor data as well as text or file data. The resultant system enables clients to access dynamically discovered services spontaneously, ...

Keywords: MIME types, browsers, forms, mobile computing, sensors, ubiquitous computing

12 Reality mining: sensing complex social systems

Nathan Eagle, Alex (Sandy) Pentland

March 2006 Personal and Ubiquitous Computing, Volume 10 Issue 4

Publisher: Springer-Verlag

Full text available: pdf(846.82 KB) Additional Information: full citation, abstract, citings

We introduce a system for sensing complex social systems with data collected from 100 mobile phones over the course of 9 months. We demonstrate the ability to use standard Bluetooth-enabled mobile telephones to measure information access and use in different contexts, recognize social patterns in daily user activity, infer relationships, identify socially significant locations, and model organizational rhythms.

Keywords: Bluetooth, Complex social systems, Mobile phones, User modeling, Wearable computing 13 Composable ad hoc location-based services for heterogeneous mobile clients Todd D. Hodes, Randy H. Katz October 1999 Wireless Networks, Volume 5 Issue 5 Publisher: Kluwer Academic Publishers Full text available: 📆 pdf(403.18 KB) Additional Information: full citation, references, citings, index terms 14 Design methodology for PicoRadio networks J. da Silva, J. Shamberger, M. Ammer, C. Guo, S. Li, R. Shah, T. Tuan, M. Sheets, J. Rabaey, B. Nikolic, A. Sangiovanni-Vincentelli, P. Wright March 2001 Proceedings of the conference on Design, automation and test in Europe **DATE '01** Publisher: IEEE Press Full text available: pdf(328.60 KB) Additional Information: full citation, references, citings, index terms 15 FDDI- A LAN among MANS Floyd E. Ross, James R. Hamstra, Robert L. Fink July 1990 ACM SIGCOMM Computer Communication Review, Volume 20 Issue 3 Publisher: ACM Press Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, citings, index terms FDDI (Fiber Distributed Data Interface) is a 100 Mbit/sec local area network (LAN) based on a token ring protocol operating over an optical fiber medium. Though not a metropolitan area network (MAN), FDDI can operate over distances normally considered as the province of MANs. With the addition of FDDI-II capabilities, and the newly defined mapping for FDDI over SONET, FDDI now offers MAN functionality for large organizations needing to provide integrated services over a widely based high perform ... 16 Models and solutions for radio irregularity in wireless sensor networks Gang Zhou, Tian He, Sudha Krishnamurthy, John A. Stankovic May 2006 ACM Transactions on Sensor Networks (TOSN), Volume 2 Issue 2 Publisher: ACM Press Full text available: R pdf(1.60 MB) Additional Information: full citation, abstract, references, index terms In this article, we investigate the impact of radio irregularity on wireless sensor networks. Radio irregularity is a common phenomenon that arises from multiple factors, such as variance in RF sending power and different path losses, depending on the direction of propagation. From our experiments, we discover that the variance in received signal strength is largely random; however, it exhibits a continuous change with incremental changes in direction. With empirical data obtained from the MICA2 ... Keywords: Sensor networks, link asymmetry, localization, packet loss, path loss, radio irregularity, sending power, topology control, wireless communication 17 <u>Self-configuring localization systems: Design and Experimental Evaluation</u> Nirupama Bulusu, John Heidemann, Deborah Estrin, Tommy Tran

February 2004 ACM Transactions on Embedded Computing Systems (TECS), Volume 3

Issue 1 Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(261.39 KB)

Embedded networked sensors promise to revolutionize the way we interact with our physical environment and require scalable, ad hoc deployable and energy-efficient node localization/positioning. This paper describes the motivation, design, implementation, and experimental evaluation (on sharply resource-constrained devices) of a self-configuring localization system using radio beacons. We identify beacon density as an important parameter in determining localization quality, which sat ...

Keywords: Location, localization, self-configuration, sensor networks

18 Integrating the physical world with the web to enable context-enhanced mobile services

Philippe Debaty, Patrick Goddi, Alex Vorbau

August 2005 Mobile Networks and Applications, Volume 10 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(493.63 KB) Additional Information: full citation, abstract, references, index terms

This work has its roots in the HP Labs Cooltown project, whose core principle is that the integration of our physical world with the Web offers unique opportunities to enable ubiquitous computing applications. This paper describes our latest results in building a model and a software architecture called the Web presence manager (WPM) to support this physical-virtual integration. This software layer implements and specifies the services and information provided by Web representations of physical ...

19 Security: Improved security in geographic ad hoc routing through autonomous



position verification

Tim Leinmüller, Christian Maihöfer, Elmar Schoch, Frank Kargl

September 2006 Proceedings of the 3rd international workshop on Vehicular ad hoc networks VANET '06

Publisher: ACM Press

Full text available: pdf(362.31 KB) Additional Information: full citation, abstract, references, index terms

Inter-vehicle communication is regarded as one of the major applications of mobile ad hoc networks (MANETs). Compared to other MANETs, these so called vehicular ad hoc networks (VANETs) have special requirements in terms of node mobility and positiondependent applications, which are well met by geographic routing protocols. Functional research on geographic routing has already reached a considerable level, whereas security aspects have been vastly neglected so far. Since position dissemination ...

Keywords: geographic routing, position verification, security, vehicular ad hoc networks (VANETs)

²⁰ VigilNet: An integrated sensor network system for energy-efficient surveillance

Tian He, Sudha Krishnamurthy, Liqian Luo, Ting Yan, Lin Gu, Radu Stoleru, Gang Zhou, Qing Cao, Pascal Vicaire, John A. Stankovic, Tarek F. Abdelzaher, Jonathan Hui, Bruce Krogh February 2006 ACM Transactions on Sensor Networks (TOSN), Volume 2 Issue 1

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(2.55 MB) terms

This article describes one of the major efforts in the sensor network community to build

an integrated sensor network system for surveillance missions. The focus of this effort is to acquire and verify information about enemy capabilities and positions of hostile targets. Such missions often involve a high element of risk for human personnel and require a high degree of stealthiness. Hence, the ability to deploy unmanned surveillance missions, by using wireless sensor networks, is of great pract ...

Keywords: Sensor networks, energy conservation, tracking, wireless

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